(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 13 October 2005 (13.10.2005)

PCT

(10) International Publication Number WO 2005/095826 A1

(51) International Patent Classification⁷: 7/02, 35/02, F16F 15/26, F02B 67/06

F16H 55/52,

(21) International Application Number:

PCT/CA2005/000465

- (22) International Filing Date: 30 March 2005 (30.03.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/558,922

2 April 2004 (02.04.2004) US

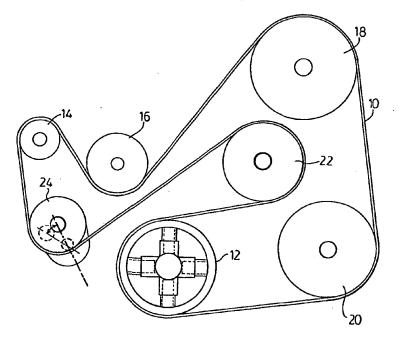
- (71) Applicant (for all designated States except US): LITENS AUTOMOTIVE PARTNERSHIP [CA/CA]; 730 Rowntree Dairy Road, Woodbridge, Ontario L4L 5T9 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GAJEWSKI, Witold [CA/CA]; 75 Summitteest Drive, Richmond Hill, Ontario L4S 1A8 (CA). CLELAND, Terry, P. [CA/CA];

38 Sandringham Crt., Brampton, Ontario L6T 2Z3 (CA). SPICER, Gary, J. [CA/CA]; 2120 Rathburn Road East, Unit #77, Mississauga, Ontario L4W 2S8 (CA). STANIEWICZ, Stan [CA/CA]; 137 Euclid Avenue, Scarborough, Ontario M1C 1K2 (CA).

- (74) Agents: IMAI, Jeffrey, T. et al.; Magna International Inc., 337 Magna Drive, Aurora, Ontario L4G 7K1 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: VIBRATION COMPENSATING PULLEY



(57) Abstract: A pulley has a hub and a rim. The hub is configured to be mountable on a driving shaft. A driving connection between the hub and rim is provided. In a first embodiment, a drive mechanism is operable to configure the rim between a circular profile and a non-circular profile. The non-circular profile produces a counteracting torque to offset load torques produced by the engine. The drive mechanism can be electrical, inertial, hydraulic or any combination thereof. In a second embodiment, the rim is fixed with a non-circular profile.

WO 2005/095826 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report